

## DH-XVR5216AN-I3

### 16CH Penta-brid 5MP Value/1080P 1U 2HDDs WizSense Digital Video Recorder



#### Wiz Sense

Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

#### Series Overview

Dahua Technology, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR series, XVR5000-I3 Series featuring max.full-channel SMD Plus to benefit customers from AI upgrade (The number of channels differs depending on the model. Please refer to the specifications below for information on the number of channels.). This series has been developed to reduce false-alarm rates and the cost of human surveillance, thus bringing great value to customers in search of products with accurate human/vehicle alarm to raise the security level of various indoor and outdoor facilities.

#### **Functions**

#### **Face Recognition**

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database. \*Face Recognition takes effect when Face is selected in AI Mode.

#### Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

\*Perimeter Protection takes effect when IVS&SMD is selected in AI Mode.

- 16-channel SMD Plus for analog channels or 24-channel SMD by camera which allows the device to trigger accurate alarms for humans and vehicles.
- 4-channel perimeter protection for analog channels which supports tripwire and intrusion detection powered by AI.
- 2-channel face recognition for analog channels which supports face comparison.
- 16-channel AI Coding saves on storage and bandwidth while maintaining the details of targets in videos.
- Supports HDCVI, AHD, TVI, CVBS and IP video input.
- Supports up to 24-channel IP camera input and each channel can be up to 6 MP. The incoming bandwidth reaches 128 Mbps.
- Smart H.265+ and H.265 dual-stream video compression.
- · IoT and POS capabilities.



#### SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

\*SMD Plus takes effect when SMD or IVS&SMD is selected in AI Mode.

#### AI Coding-ABR

Compared with H.265, AI coding-ABR can save 50% on storage costs, and save bit rate for complex scenes, which can prioritize image quality in dynamic scenes.

#### Irregular Black Block Masking

Dahua's black block masking function supports the use of irregular shapes for masking, ensuring privacy in public and private locations.

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#### incoming bandwidth: 128 Mbps, recording bandwidth: **Technical Specification** 128 Mbps and outgoing bandwidth: 128 Mbps \*After IP extension is enabled, Video Quality Analytics, System Scene Changing, Face Recognition, Face Detection, Main Processor Industrial-grade processor SMD, Perimeter Protection cannot be used. Operating System Embedded Linux Main stream: 5 MP Mode: 4-ch 5 MP@(1 fps-6 fps); others 5M-N@(1 **Operating Interface** Web; Local GUI fps-12 fps) **Encoding Capacity** 5M-N Mode: 5M-N@(1 fps -12 fps); 4M-N/1080p@(1 Perimeter Protection fps-15 fps); 1080N/720p/960H/D1/CIF@(1 fps-25/30 fps) Advanced Mode: 2 channels, 10 IVS rules for each Perimeter Performance Al Sub stream: D1/CIF@(1 fps-15 fps) channel by Recorder (Number of General Mode: 4 channels, 10 IVS rules for each Dual-stream Channels) Yes channel Video Bit Rate 32 kbps-6144 kbps Face Detection Audio Sampling 8 kHz, 16 bit Face Attributes 6 attributes Audio Bit Rate 64 kbps Face Detection Performance of AI by 1 HDMI, 1 VGA 2 channels(up to 12 face images/s each channel) Recorder (Number of VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 Channels) HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × Video Output 720 Face Recognition It changes to 1920 × 1080, 1280 × 1024, 1280 × 720 when Face or IVS&SMD is selected in AI Mode. Up to 10 face databases with 10,000 images. Face Database Capacity When IP extension mode not enabled: 1/4/8/9/16 Face Recognition Multi-screen Display When IP extension mode enabled: 1/4/8/9/16/25 Performance of AI by 2 channels Recorder (Number of Third-party Camera Access Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF Channels) **Compression Standard** SMD Plus Video Compression AI Coding; Smart H.265+; H.265; Smart H.264+; H.264 16 channels: Audio Compression G.711a; G.711u; PCM Secondary filtering for human and motor vehicle, SMD Plus by Recorder reducing false alarms caused by leaves, rain and lighting Network condition change HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; 24 channels SMD Plus by Camera DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Network Protocol Server; P2P; Auto Registration; IP Search (Supports IP AI Video Quality Analytics camera, DVR, NVS, etc.) 16 channels: Supports detecting brightness levels, color AI Video Quality Analytics Mobile Phone Access iOS: Android cast, defocus, overexposure, contrast levels, black and by Recorder white ONVIF 23.12 (Profile T; Profile S; Profile G); CGI; SDK Interoperability Scene Changing Browser Chrome; IE; Safari; Edge; Firefox Scene Changing by 1 channel **Recording Playback** Recorder Record Mode General; alarm; motion detection; intelligent; POS Irregular Black Block Masking 1/4/9/16 Irregular Black Block 1 channel Recording Playback It changes to 1/4/9 split when Face or IVS&SMD is Masking by Recorder selected in Al Mode Audio and Video Backup Method USB device and network 16 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-Analog Camera Input Instant playback; general playback; event playback; tag Playback Mode detect playback; smart playback 1. CVI: 5 MP@25 fps; 5 MP@20 fps; 5 MP@10/12.5 fps; Storage 4 MP@25/30 fps; 1080p@25/30 fps; 720p@50/60 fps; 720p@25/30fps Disk Group Yes Camera Input 2. TVI: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps: 720p@25/30 fps. Alarm 3. AHD: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 Motion detection; alarm box; HDCVI alarm; camera fps; 720p@25/30 fps. General Alarm external alarm; network alarm; PIR alarm Up to 24 channels of IPC access 8 IP channels by default + 16 channels (analog channels Error (no disk, disk error, low space, low quota space; IP Camera Input are converted to IP channels) Anomaly Alarm network disconnection; IP conflict; MAC conflict); video

loss; video tampering; camera offline

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Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus	
Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; audio; buzzer; log; preset; email	
Ports		
Audio Input	1-channel RCA 16-channel BNC (Coaxial Audio)	
Audio Output	1-channel RCA	
Two-way Talk	Yes (share the same audio input with the first channel)	
Disk Interface	2 SATA ports. Each disk can contain up to 16 TB. This limit varies depending on the environment temperature.	
RS-485	1	
USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)	
HDMI	1	
VGA	1	
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)	
General		
Power Supply	12 VDC, 4 A	
Power Consumption	<12 W(without HDD)	
Net Weight	1.56 kg (3.44 lb)	
Gross Weight	2.86 kg (6.31 lb)	
Product Dimensions	375.0 mm × 289.6 mm × 53.0 mm (14.76" × 11.39" × 2.09") (W × D × H)	
Packaging Dimensions	433.0 mm × 141.0 mm × 366.0 mm (17.05" × 5.55" × 14.41") (W × D × H)	
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)	
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)	
Operating Humidity	10%–90% (RH), non-condensing	
Installation	Desktop	
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B	

# Accessories Optional:







DHI-SSD-V800S256G SSD

DHI-SSD-V800S512G SSD

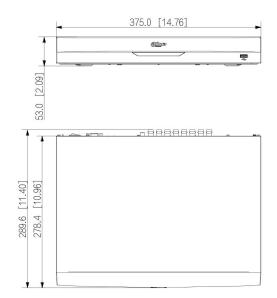
DHI-SSD-V800S1TB SSD



DHI-ARB1606 Alarm Box

#### Dimensions (mm[inch])

mm [inch]



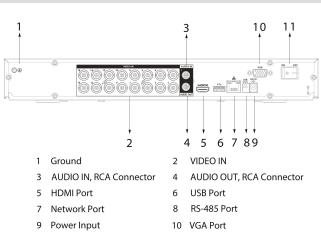
#### **Ordering Information**

Туре	Model	Description
DIGITAL VIDEO RECORDER	DH-XVR5216AN-I3	16CH Penta-brid 5MP Value/1080P 1U 2HDDs WizSense Digital Video Recorder

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